

gtatttctta aacacagag gatcgagga ggcggccact ctgactcctg gtaggtggga ctaggagatc agagtcagac cctgactggc tggggggggg cgcctccpgt cagcttggaa 120
 AGTCTCTGCG GGGTCTCTGT ATTCTGTG CTGGCTGAG GATCTGCGCT CAGGCGGGC AGCGGTTCC GTATGTGT GTGGCATAG CAGTATCCG ATCAGATAG GAGAGAGAG
 S L C G U L U F L L L A G L L P L Q A R A K A F R D U L G H E Q V P D N N A E H 210
CMATCTCTG CTGGCTCTC AGATCAAT GAATGGATG AAGAGCTGA TCCAGTGTG AGGAGGGAG AGGGCAGATG GAGGAGTCC TGGAGAGAG GCGCTGTGCA GCGAGCCCTA
 Q L R G U S S D E H E U D E Q L V P U U A R G E G R U K O S U E G G A U Q A R L 360
 ACGAGTAT CTGGCGCTT GGTGGTTCC ATATACCTT TCGTAGTARA CTGGTGTTT CCGAGTGGC AAGAGAGAG TCGACGGCG ATATCTCTCT ATAGAGAGA CTGAGAGAT
 I S D S P R L U G S H I I F U U H L U F P A C O E O A R H G H I U V E A N C R S 180
 GATTAGAG TGGCTTCTGA CCGATATG TACACTGGA CCGAGGGCG AGCGATGAG GACTGGGAG ACHAGAGAG TTAGCTTAG TCCCTGAGCG GAGCGCTTC
 D L E L A S D P V U Y N U I T E A D D E U W E D N I S O G O H L A F P O G L P I 600
 CCGCGCCCG ACGAGAGGA GAATGAGAC TCTGTCTAG CTCTCCAC ACITGGTGA TATTTCARA AGCTGGTGA GTGTTCAGA CAGTCTTCA TAAAGACAT CAGTTCAGA
 P R P H G A K K U H F U V U F H I L G Q V F Q K L G O C S A R U S I H T U H L T 720
 GTGGCGCT AGGTATGA AGTATGTC TITCAGAGC AGCGCGGGC ATACTTCCC ATCTCCAGG TGAAGAGCTI GTATGTATTA ACHAGTGA TCCCTATAT CCGAGCATG
 G P P Q U A E U I U F A R A H G R A V I P I S K U K D U V U I T D O I P I F U T H 810
 TCGAGAGA ATAGCGGGA CTCTCTGAT GAAGCTTCC TCGAGACTT CCGCATTTT TCGATGCC TATTCAGGA TCGAGTCTI TCTCTACTT ACITCGCAT TCTACAGG
 V Q K M D A H S S D E T F L A D L P I F F D U L I H D P S H F L N Y S A I S V K 960
 TGAAGTTG GAGAGAGC TGGCTGTTI GTCTCCACA ATCAGCTT CARICACAG TATGTCTGA ATGAGCTT CARCTTAC CTACAGTCC AAGCTGAGI CCGCGAGCA
 U N F G D N T G L F U S H M H I L N H T V U L M G T F H T H L I U Q I A U P G P 1000
 TCGCTTCA CCGACTTC GCTCTTCTI TCGACTTCT CTGGCTGCC ATCTGCGCT TACCGCAT TATCAGAGC TATCTCTCT TATAGCTTA CTGGTACGA ATCGATGAG
 C P S P T P S P S S S T S P S P R S S P S P I L S T P S P S L A P T G Y K S N E 1200
 CTAGTACA TITCAGTA AAGTCCGA ATAGAGAT ATGGTACT CAGAGAGCC ATCAGATG TATAGGAT CAGAGCTC AAGTACGA TGTCCATC
 L S D I S H E H C A I R A V G Y F A A T I T I U D G I L E U H I Q U A D U P I 1320
 CCGACTTC AAGTACGA CTCTCTGAT GATCTGAT TCGCTTCA AGGGGCTAT CCGAGAGG CCGTACAT CAGTCTGAG CCGACTTCC AGATGCCGA GAGAGGGTG
 P T L D P O N S L M D E F U I T C E G A T P T E A C I I I S D P I C Q I A U O H A U 1440
 TCGAGCGCG TGGTGTGA TGGCTGTC CTCTGTCG TGAAGAGC CTCTATGG TCGAGACTT ACGTGTGA TITCTCTG CAGAGACTT CAGAGCTG CCGAGAGC
 C S P U A U D E L C L L S U A R A F N G S G T Y C U H F I L G D A S L A L T S 1560
 GCGCTACT CTATCTGCC CAGAGCTTA GCTCTCTC TGAAGAGC GATGGTGT CTGATCTCA TGGTGTCT GCGATGTTI GTACATGG TACATCTI CCGTACAA
 A R L I S I P G K D L G S P L A T U H G U L I S I G C L A F U T H U T I L L V K 1680
 AAGAGAGA CAGAGAGC ATAGAGAG TCGAGAGG ACGTGTGA GAGAGAGG CTGAGTGTI TITCAGCA TGAAGAGC TCTGTTCC GAGAGAGC GAGAGAGAT
 E H C T Y K P I G H C I R H U U E G K G L S U F L S H A K A P F S A G O R E K O 1800
CTGATCTC AGGAGAGC ATGATCTC TATGCTCA CTCTCTCT Tgactggggg cccactctc tgtcgtgta tgtgagtglt gcgaagatgc atgactgta cgttgttll
 P L L O D E P U A L . 1920
 tctacgggt atgttaaat gntatcag gtltagggg tlygtlaat tggatllta gtaagggat ggaagacag tatctctcg catctglat ggtgtllta tacgtlaat 2040
 aggtgggca catgttgtt gaagggggg gggggagta ctgactctc aggtctagg ttaactggg gaggatgcc caggactctt agattctac acgaatglt cctgaacca 2160
 gctgactcg acctaaagg catgttcat cactctctc tgcgtcat gacatctct gagecctga tggatllta atgaaccau cgttgtgta tgggtgtgt gttacatua 2280
 gatactctt aaaaagacg tctattaaa aaaaaaanaa 2320

FIGURE 1A

EXON	BAC Start	BAC Stop	cDNA Start	cDNA Stop	Exon Length
1	83294	83455	1	162	162
2	89834	89986	163	314	152
3	90696	90839	315	458	144
4	93419	93594	459	634	176
5	96509	96665	635	791	157
6	96983	97300	792	1109	318
7	103044	103142	1110	1208	99
8	104413	104515	1209	1311	103
9	106494	106702	1312	1520	209
10	110048	110141	1521	1614	94
11	110592	111633	1615	2656	1042

poly A signal is position 111614-111619

translation start (ATG) is:

cDNA: 92

Gene: 83385

FIGURE 1B

09043075-03004
F00E30-52024600

00043075-083001
T00000-54024000

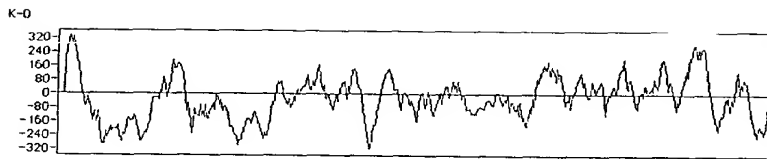


FIGURE 1C

rat	ATGGAAAGTC	TCTGCGGGGT	CCTGGTATTT	CTGCTGCTGG	CTGCAGGACT	GCCGCTCCAG	GCGGCCAAGC	GGTTC	75
mouse	ATGGAAAGTC	TCTGCGGGGT	CCTGGGATTT	CTGCTGCTGG	CTGCAGGACT	GCCTCTCCAG	GCTGCCAAGC	GATTT	75
human	ATGGAATGTC	TCTACTATTT	CTTGGGATTT	CTGCTCCTGG	CTGCAAGATT	GCCACTTGAT	GCCGCCAACC	GATTT	75
rat	CGTGATGTGC	TGGGCCATGA	GCAGTATCCG	GATCACATGA	GGGAGAACAA	CCAATTACGT	GGCTGGTCTT	CAGAT	150
mouse	CGTGATGTGC	TGGGCCATGA	ACAGTATCCC	GATCACATGA	GAGAGCACAA	CCAATTACGT	GGCTGGTCTT	CGGAT	150
human	CATGATGTGC	TGGGCAATGA	AAGACCTTCT	GCTTACATGA	GGGAGCACAA	TCAATTAAAT	GGCTGGTCTT	CTGAT	150
rat	GAAATGAAT	GGGATGAACA	GCTGTATCCA	GTGTGGAGGA	GGGAGAGGG	CAGATGGAAG	GACTCCTGGG	AAGGA	225
mouse	GAAATGAAT	GGGATGAACA	CCTGTATCCA	GTGTGGAGGA	GGGAGAGCGG	CAGGTGGAAG	GACTCCTGGG	AAGGA	225
human	GAAATGACT	GGAATGAAAA	ACTTACCCA	GTGTGGAAGC	GGGAGACAT	GAGGTGGAAA	AATCCTGGA	AGGGA	225
rat	GGCCGTGTGC	AGGCAGCCCT	AACCACTGAT	TCACCGGCCT	TGGTGGGTTC	CAATATCACCT	TTCGTAGTGA	ACCTG	300
mouse	GGCCGTGTGC	AGGCAGCTCT	GACCACTGAC	TCACCGGCTC	TGGTGGGTTC	CAATATCACCT	TTTGTGGTGA	ACCTG	300
human	GGCCGTGTGC	AGGCAGTCCCT	GACCACTGAC	TCACCGGCC	TCGTGGGCTC	AAATATAACA	TTTGGCGTGA	ACCTG	300
rat	GTGTTCCCA	GATGCCAGAA	GGAAGATGCC	AACGGCAATA	TCGTCTATGA	GAGGAAGTGC	AGAAGTGATT	TGGAG	375
mouse	GTGTTCCCA	GATGCCAGAA	GGAAGATGCT	AATGGCAATA	TCGTCTATGA	GAAGAAGTGC	AGGAATGATT	TGGGA	375
human	ATATTCCCTA	GATGCCAAAA	GGAAGATGCC	AATGGCAACA	TAGTCTATGA	GAAGAAGTGC	AGAAATGAGG	CTGGT	375
rat	CTGGCTTCTG	ACCCGTATGT	CTACAACCTGG	ACCACAGGGG	CAGACGATGA	GGACTGGGAA	GACAACACCA	GCCAA	450
mouse	CTGACATCTG	ACCTGCATGT	CTACAACCTGG	ACTGCAGGGG	CAGATGATGG	TGACTGGGAA	GATGGCACCA	GCCGA	450
human	TTATCTGCTG	ATCCATATGT	TTACAACCTGG	ACAGCATGGT	CAGAGGACAG	TGACGGGGAA	AATGGCACCG	GCCAA	450
rat	GGCCAGCACC	TCAGGTTCCC	CGACGGGAAG	CCCTTCCCTC	GCCCCACGG	ACGGAAGAAA	TGGAACCTCG	TCTAC	525
mouse	AGCCAGCATC	TCAGGTTCCC	GGACAGGAGG	CCCTTCCCTC	GCCCCCATGG	ATGGAAGAAA	TGGAGCTTTG	TCTAC	525
human	AGCCATCATA	ACGTCTTCCC	TGATGGGAAA	CCCTTCCCTC	ACCACCCCGG	ATGGAGAAGA	TGGAATTTC	TCTAC	525
rat	GTCTTCCACA	CACCTGGTCA	GTATTTTCAA	AAGCTGGGTC	AGTGTTCAGC	ACGAGTTTCT	ATAAACACAG	TCAAC	600
mouse	GTCTTTCACA	CACCTGGCCA	GTATTTTCAA	AAACTGGGTC	GGTGTTCAGC	ACGGGTTTCT	ATAAACACAG	TCAAC	600
human	GTCTTCCACA	CACCTGGTCA	GTATTTCCAG	AAATTGGGAC	GATGTTCAGT	GAGAGTTTCT	GTGAACACAG	CCAAT	600
rat	TTGACAGTTG	GCCCTCAGGT	CATGGAAGTG	ATTGTCTTTC	GAAGACACGG	CCGGGCATAC	ATTCCCATCT	CCAAA	675
mouse	TTGACAGCTG	GCCCTCAGGT	CATGGAAGTG	ACTGTCTTTC	GAAGATACGG	CCGGGCATAC	ATTCCCATCT	CGAAG	675
human	GTGACACTTG	GGCTCAACT	CATGGAAGTG	ACTGTCTACA	GAAGACATGG	ACGGGCATAT	GTTCACATCG	CACAA	675
rat	GTGAAAGACG	TGTATGTGAT	AACAGATCAG	ATCCCTATAT	TCGTGACCAT	GTACCAGAAG	AATGACCGGA	ACTCG	750
mouse	GTGAAAGATG	TGTATGTGAT	AACAGATCAG	ATCCCTGTAT	TCGTGACCAT	GTCCACAGAAG	AATGACAGGA	ACTTG	750
human	GTGAAAGATG	TGTACGTGAT	AACAGATCAG	ATTCTGTGT	TTGTGACTAT	GTTCACAGAAG	AACGATCGAA	ATTCA	750
rat	TCTGATGAAA	CCTTCTCAG	AGACCTCCCC	ATTTTCTTCG	ATGTCTCAT	TCACGATCCC	AGTCATTTCC	TCAAC	825
mouse	TCTGATGAGA	TCTTCTCAG	AGACCTCCCC	ATCGTCTTCG	ATGTCTCAT	TCATGATCCC	AGCCACTTCC	TCAAC	825
human	TCCGACGAAA	CCTTCTCAA	AGATCTCCCC	ATTATGTTTG	ATGTCTCAT	TCATGATCCT	AGCCACTTCC	TCAAT	825
rat	TACTCTGCCA	TTTCTACAA	GTGGAACTTT	GGGGACAACA	CTGGCCTGTT	TGTCTCCAAC	AATCAACTTT	TGAAT	900
mouse	GACTCTGCCA	TTTCTACAA	GTGGAACTTT	GGGGACAACA	CTGGCCTGTT	TGTCTCCAAC	AATCAACTTT	TGAAT	900
human	TATTCTACCA	TTAACTACAA	GTGGAGCTTT	GGGGATAATA	CTGGCCTGTT	TGTTTCCACC	AATCATACTG	TGAAT	900
rat	CACACGTATG	TGCTCAATGG	AACCTTCAAC	TTTAACCTCA	CCGTGCAAAAC	TGCAGTGCCT	GG-----	-ACCA	966
mouse	CACACTTATG	TGCTCAATGG	AACCTTCAAC	CTTAACCTCA	CCGTGCAAAAC	TGCAGTGCCT	GG-----	-GCCA	966
human	CACACGTATG	TGCTCAATGG	AACCTTCAGC	CTTAACCTCA	CTGTGAAAGC	TGCAGCACCA	GGACCTTGTC	CGCCA	975
rat	-TGCC-CC-T	CACCCACACC	TTGCGCTTCT	TCTTCGACTT	CTCCTTC---	---GCCTGCA	TCTTCGCTT	CA---	1029
mouse	-TGCC-C--T	--CCC---CC	TTGCGCTTCG	ACTCCGCTT	CACCTTCAAC	TCCGCCCTTA	CCTTCGCTT	CACCT	1032
human	CCGCCACCAC	CACCCAGACC	TTC-----	-----	-----AA-	-----A	-----	-ACC-	1004
rat	---CCCACAT	TATCAACACC	TAGTCCCTCT	TTAATGCCTA	CTGGCTACAA	ATCCATGGAG	CTGAGTGACA	TTTCC	1101
mouse	TTGCCACAT	TATCAACACC	TAGCCCTCT	TTAATGCCTA	CTGGTTACAA	ATCCATGGAG	CTGAGTGACA	TTTCC	1107
human	TTG-----	-----CACC	-----CCTTCT	TTAGGACCTG	CTGGTGACAA	CCCCCTGGAG	CTGAGTAGGA	TTCTT	1059
rat	AATGAAACT	GCCGAATAAA	CAGATATGGT	TACTTTCAGAG	CCACCATCAC	AATTGTAGAT	GGAATCCTAG	AAGTC	1176
mouse	AATGAAACT	GCCGAATAAA	CAGATATGGC	TACTTTCAGAG	CCACCATCAC	AATTGTAGAG	GGGATCCTAG	AAGTC	1182
human	GATGAAACT	GCCAGATFAA	CAGATATGGC	CACCTTTCAG	CCACCATCAC	AATTGTAGAG	GGAATCTTAG	AGGTT	1134

FIGURE 2A

rat	AACATCATCC	AGGTAGCAGA	TGTCCCAATC	CCCACACTGC	AGCCTGACAA	CTCACTGATG	GACTTCATTG	TGACC	1251
mouse	AGCATCATGC	AGATAGCAGA	TGTCCCCATG	CCCACACCGC	AGCCTGCCAA	CTCCCTGATG	GACTTCACTG	TGACC	1257
human	AACATCATCC	AGATGACAGA	CGTCCTGATG	CCGGTGCCAT	GGCCTGAAAG	CTCCCTAATA	GACTTTGTCTG	TGACC	1209
rat	TGCAAAGGGG	CCACTCCCAC	GGAAGCCTGT	ACGATCATCT	CTGACCCAC	CTGCCAGATC	GCCCAGAACA	GGGTG	1326
mouse	TGCAAAGGGG	CCACCCCAT	GGAAGCCTGT	ACGATCATCT	CCGACCCAC	CTGCCAGATC	GCCCAGAACC	GGGTC	1332
human	TGCCAAGGGA	GCATTCCCAC	GGAGGTCTGT	ACCATCATTT	CTGACCCAC	CTGCGAGATC	ACCCAGAACA	CAGTC	1284
rat	TGCAGCCCGG	TGGCTGTGGA	TGAGCTGTGC	CTCCTGTCCG	TGAGGAGAGC	CTTCAATGGG	TCCGGCACGT	ACTGT	1401
mouse	TGCAGCCCTG	TGGCTGTGGA	TGGGCTGTGC	CTGCTGTCTG	TGAGAAGAGC	CTTCAATGGG	TCTGGCACCT	ACTGT	1407
human	TGCAGCCCTG	TGGATGTGGA	TGAGATGTGT	CTGCTGACTG	TGAGACGAAC	CTTCAATGGG	TCTGGGACGT	ACTGT	1359
rat	GTGAATTTCA	CTCTGGGAGA	CGATGCAAGC	CTGGCCCTCA	CCAGCGCCCT	GATCTCTATC	CCTGGCAAAG	ACCTA	1476
mouse	GTGAATTTCA	CTCTGGGAGA	TGATGCAAGC	CTGGCCCTCA	CCAGCACCCCT	GATCTCTATC	CCTGGCAAAG	ACCCA	1482
human	GTGAACCTCA	CCCTGGGGGA	TGACACAAGC	CTGGCTCTCA	CGAGCACCCCT	GATTTCTGTT	CCTGACAGAG	ACCCA	1434
rat	GGCTCCCCTC	TGAGAACAGT	GAATGGTGTC	CTGATCTCCA	TTGGCTGCCT	GGCCATGTTT	GTCACCATGG	TTACC	1551
mouse	GACTCCCCTC	TGAGAGCAGT	GAATGGTGTC	CTGATCTCCA	TCGGCTGCCT	GGCTGTGCTT	GTCACCATGG	TTACC	1557
human	GCCTCGCCTT	TAAGGATGGC	AAACAGTGCC	CTGATCTCCG	TTGGCTGCTT	GGCCATATTT	GTCACTGTGA	TCTCC	1509
rat	ATCTTGCTGT	ACAAAAAACA	CAAGACGTAC	AAGCCAATAG	GAAACTGCAC	CAGGAACGTG	GTCAAGGGCA	AAGGC	1626
mouse	ATCTTGCTGT	ACAAAAAACA	CAAGGCGTAC	AAGCCAATAG	GAAACTGCCC	CAGGAACACG	GTCAAGGGCA	AGGGC	1632
human	CTCTTGGTGT	ACAAAAAACA	CAAGGAATAC	AACCCAATAG	AAAATAGTCC	TGGGAATCTG	GTCAGAAGCA	AAGGC	1584
rat	CTGAGTGTTT	TTCTCAGCCA	TGCAAAAGCC	CCGTTCTCCC	GAGGAGACCG	GGAGAAGGAT	CCACTGCTCC	AGGAC	1701
mouse	CTGAGTGTTT	TTCTCAGTCA	CGCGAAAGCC	CCGTTCTTCC	GAGGAGACCA	GGAGAAGGAT	CCATTGCTCC	AGGAC	1707
human	CTGAGTGTTT	TTCTCAACCG	TGCAAAAGCC	GTGTTCTTCC	CGGGAACCA	GGAAAAGGAT	CCGCTACTC-	---AA	1655
rat	AAGCCATGGA	TGCTCTAA--	-----	-					1719
mouse	AAGCCAAGGA	CACTCTAA--	-----	-					1725
human	AAACCAAGAA	---TTTAAAG	GAGTTTCTTA	A					1683

FIGURE 2A, cont'd.

rat	MESLRCGLVLF	LLLAAGLPLQ	AAKRFRDVLG	HEQYPDHMR	NNQLRGWSSD	50
mouse	MESLRCGLGF	LLLAAGLPLQ	AAKRFRDVLG	HEQYPDHMR	HNQLRGWSSD	50
human	MECLYYFLGF	LLLAARLPD	AAKRFRDVLG	NERPSAYMR	HNQLNGWSSD	50
rat	ENEWEQLYP	VWRRGEGRWK	DSWEGGRVQA	ALTSDSPALV	GSNITFVVNL	100
mouse	ENEWEHLYP	VWRRGDGRWK	DSWEGGRVQA	VLTSDSPALV	GSNITFVVNL	100
human	ENDWNEKLYP	VWKRGDMRWK	NSWKGGRVQA	VLTSDSPALV	GSNITFAVNL	100
rat	VFPRCQKEDA	NGNIVYERN	RSDLELASDP	YVYNWTTGAD	DEDWEDNTSQ	150
mouse	VFPRCQKEDA	NGNIVYEKNC	RNDLGLTSDL	HVYNWTTAGAD	DGDWEDGTSR	150
human	IFPRCQKEDA	NGNIVYEKNC	RNEAGLSADP	YVYNWTTAWSE	DSGGENGTGQ	150
rat	GQHLRFDPDGK	PFPRPHGRKK	WNFVYVFHTL	GQYFQKLGC	SARVSINTVN	200
mouse	SQHLRFDPDRR	PFPRPHGWKK	WSEVYVFHTL	GQYFQKLGR	SARVSINTVN	200
human	SHHNVFPDGK	PFPHHPGWRR	WNFIYVFHTL	GQYFQKLGR	SVRVSVNTAN	200
rat	LTVGPQVMEV	IVFRRHGRAY	IPISKVKDQV	VITDQIPIFV	TMQKNDNRNS	250
mouse	LTAGPQVMEV	TVFRRYGRAY	IPISKVKDQV	VITDQIPVFV	TMSQKNDNRNL	250
human	VTLGPQLMEV	TVYRRHGRAY	VPQIAQVKDQV	VVTDQIPVFV	TMFQKNDNRNS	250
rat	SDETFLRDLP	IFFDVLIHDP	SHFLNYSAIS	YKWNFGDNTG	LFVSNNHNTLN	300
mouse	SDEIFLRDLP	IVFDVLIHDP	SHFLNDSAIS	YKWNFGDNTG	LFVSNNHNTLN	300
human	SDETFLKDLP	IMFDVLIHDP	SHFLNYSTIN	YKWSFGDNTG	LFVSTNHTVN	300
rat	HTYVLNGTFN	FNLTVQTAVP	GPCSPSPSPS	-PSSSTSPSP	ASSPSPTLST	348
mouse	HTYVLNGTFN	LNLTVQTAVP	GPCPPSPSP	PPSPSTPLP	SPSPPLTLST	350
human	HTYVLNGTFN	LNLTVKAAAP	GPCPPPPPP	-----PPR	-----SK	334
rat	PSPSLMPTGY	KSMELSDISN	ENCRINRYGY	FRATITIVDG	ILEVNIQIA	398
mouse	PSPSLMPTGY	KSMELSDISN	ENCRINRYGY	FRATITIVEG	ILEVSIMQIA	400
human	PTPSLGPAGD	NPLELSRIPD	ENCQINRYGH	FQATITIVEG	ILEVNIQMT	384
rat	DVPIPTLQPD	NSLMDFIIVC	KGATPTEACT	IISDPTCQIA	QNRVCSFVAV	448
mouse	DVPMPTPQPA	NSLMDFTVTC	KGATPMEACT	IISDPTCQIA	QNRVCSFVAV	450
human	DVLMPVPWPE	SSLIDFVVTC	QGSIPTEACT	IISDPTCEIT	QNTVCSPVDV	434
rat	DELCLLSVRR	AFNGSGTYCV	NFTLGDDASL	ALTSALISIP	GKDLGSPRLT	498
mouse	DGLCLLSVRR	AFNGSGTYCV	NFTLGDDASL	ALTSTLISIP	GKDPDPSPLRA	500
human	DEMCLLTVRR	TFNGSGTYCV	NLTLGDDTSL	ALTSTLISVP	DRDPASPLRM	484
rat	VNGVLISIGC	LAMFVTMTVI	LLYKKHKTYK	PIGNCTRNVV	KGKGLSVFSL	548
mouse	VNGVLISIGC	LAVLVTMTVI	LLYKKHKAYK	PIGNCPRTNV	KGKGLSVLLS	550
human	ANSALISVGC	LAIFVTVISL	LVYKKHKEYN	PIENSPGNVV	RSKGLSVFLN	534
rat	HAKAPFSRGD	REKDPILLQDK	PW--ML	572		
mouse	HAKAPFFRGD	QEKDPILLQDK	PR--TL	574		
human	RAKAVFPPGN	QEKDPILLKNO	EFKGVS	560		

FIGURE 2B

0044075-083001

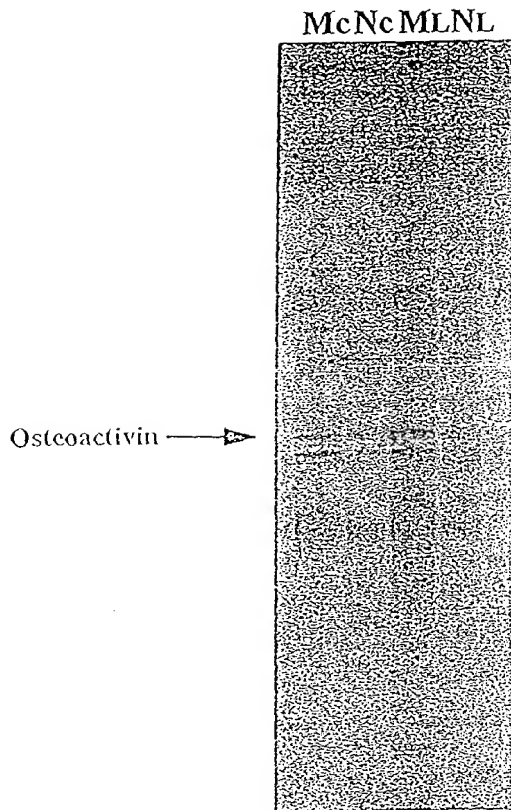


FIGURE 3

0943075-083001
T00E80-5/00E1060

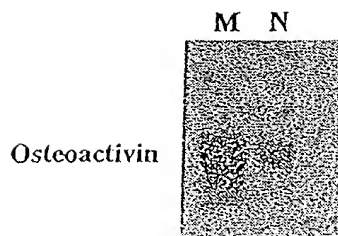


FIGURE 4A

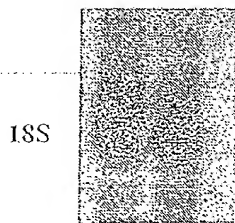


FIGURE 4B

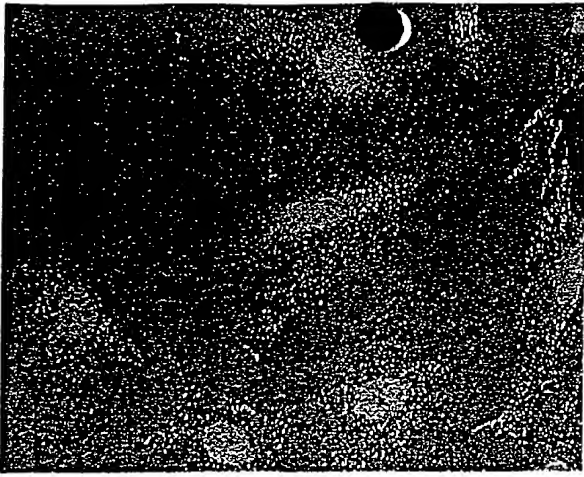


FIGURE 5

09043075-083001
FOQEB0-5Z0E71660

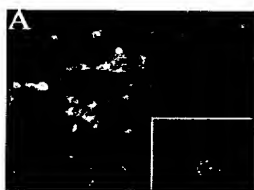


Figure 5A

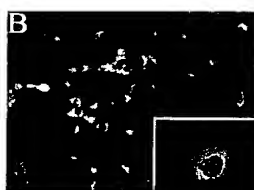


Figure 5B

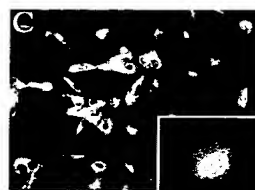


Figure 5C

09943075-083001

10080-52021500

Osteoactivin

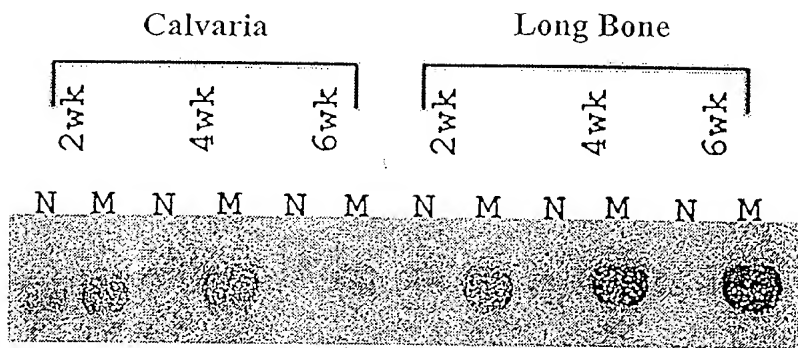


FIGURE 6

FIGURE 7A

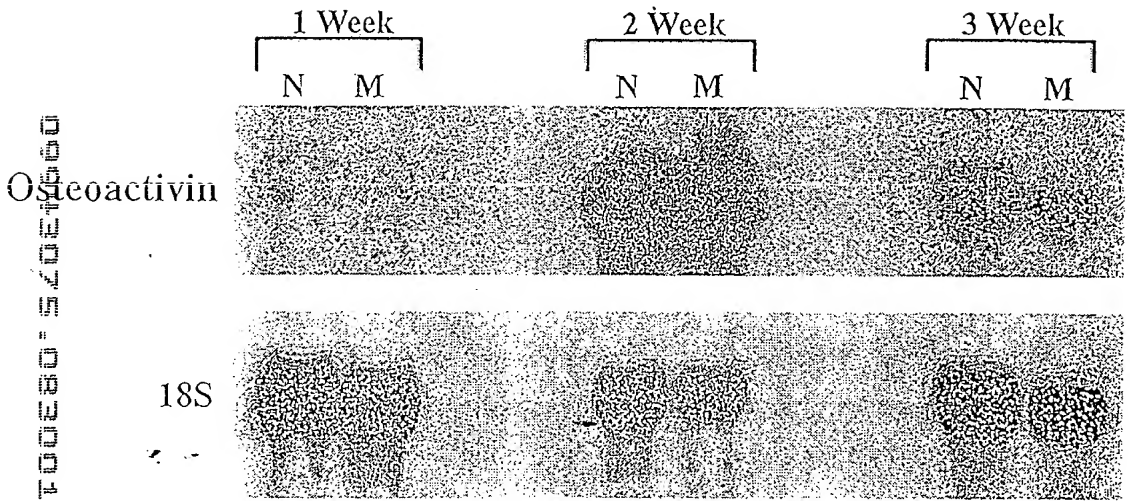


FIGURE 7B

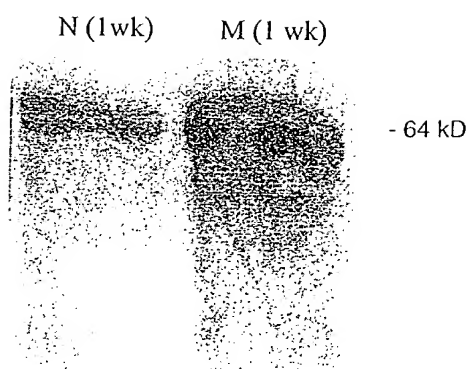


FIGURE 8

Osteoactivin expression



FIGURE 9

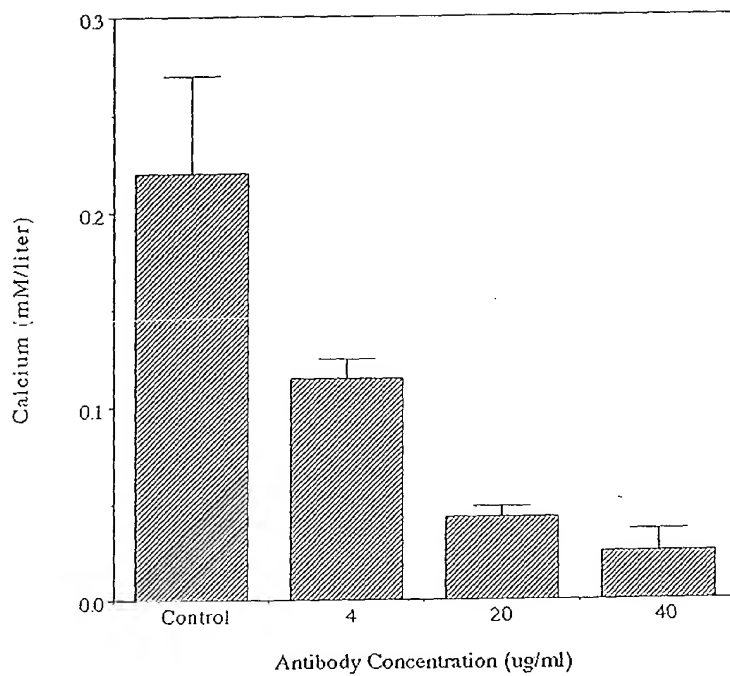


FIGURE 10